DECEMBER SAN ANTONIO RADIO CLUB 1977
Vol. 9 BULL-ETIN No. 1

President	George James WB5LDN	Meets first and third Fridays at 7:30 PM (sharp) at the Red Cross Bldg. 90 Brees St. All who have an interest in Amateur Radio are cordially invited to attend.
Vice Pres.	Bill Eckenrode W5SG	
Secretary	Larry Humlicek WA5PAF	
Treasurer	Gale Booher WB5MMI	
Sgt-at-Arms	(Mercer Richardson, K0VIF, Acting)	

Bull-etin Editor	(Bob Via WB5FDT, Acting)
Assistant Editor	Mercer Richardson K0VIF
Circulation Manager	(Wanted)
Typst	(Needed desperately)

Full permission granted for reprinting articles appearing in the BULL-ETIN, provided credit line is given to San Antonio Radio Club BULL-ETIN and , in reprinting, to author and publication from which orginal article appeared. Letters to the Editor should be addressed to: 6827 Spring Hurst, San Antonio, Texas 78249.

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NOTICIAS

There will be no club meeting on Friday, December 2, 1977.
Club meeting on the 3rd Friday, Dec. 16, 1977 will be held.

CHRISTMAS PARTY for all Amateurs -SAN ANTONIO RADIO CLUB CHRISTMAS PARTY- Arden Grove Party House, 102 Ninth Street, Saturday Dec. 3, 1977 ,, Social Hour, 6 to 7 Pm. , Dinner, 7 PM, Dancing 9 TILL MIDNIGHT Setups furnished, BYOB, $6.50 per Person, For tickets Contact any club officer, or George James, WB5LDN, 655-3934

If any member of SARC does not wish his address and/or telephone number to appear in the new Club Directory (Green Book), Contact George James Prior to December 2, 1977 in writing at 7407 Castle Trail, San Antonio Texas 78218 or at the CHRISTMAS PARTY.

10 Shot- SPACE HOUSTON ON TEN - The Houston Chapter of the 10-10 international net - HAMBASH- Bear Creek Park- November 19&20, 1977 For tickets and information write: W5SQ Bob Cox 11002 Montverde Ln. Houston, Texas 77099; Talk in 146.28/88 ; 146.52; 28.688 & 3953Kc Call Robert Osborn, WA5JDU, 733-9474 for local info.

NOVEMBER 16 Club Meeting - ARMY MARS - Presented by Bill Wolff

December 2 NO MEETING

December 3 Christmas Party

December 16 Club Meeting - Linearity Device & 3rd Order Distortion Product Determinations- Presented by Jim Tilton WB5JMC

********** PRESIDENT'S REPORT **********

I would first like to thank all of you for showing your confidence in me as your new president. Jim Wright has done an excellent job these past two years and I feel we all owe him many thanks.

Looking to what's ahead this year, the Board of Directors has charged the club officers with some large tasks and we will do our best to accomplish them. High priority is being given to re-establishing the club roster which will take on a new look compared to those in the past.

The greatest problem is compiling any roster is getting the information required from the members. I ask all of you to fill out the membership form you recently received in the mail.If the mailing didn't reach you, forms will be available at club meetings. Please return the form by mail or bring it with you to the next club meeting.

This roster information that you provide will be used to assembly a "Blue Book" similar to the one published by the Dallas Radio Club, but on a smaller scale. This first edition of the San Antonio Radio Club (SARC) "Green Book" will list all members of the radio club and their address, call, class of license, phone number, and indicate other amateur radio organization memberships. This will be a valuable reference for us all.

PRESIDENT'S REPORT **********
(Continued)

We are also placing high priority on getting out a monthly SARC BULL-ETIN. Bob Via, WB5FDT is the new (acting) Editor with Mercer Richardson, WOVIF, as his assistant. WE are hoping to have a column from all the amateur radio organizations in San Antonio listing their activities and news as well as technical articles on amateur radio. If you would like to help with the BULL-ETIN or have some suggest ions please contact Bob at 696-2754 (6-9:00pm).

If you haven't been to a club meeting recently, plan on coming soon. Your VP and Program chairman, Bill, W5SG, has planned for programs at all our meetings. These programs, representing the various aspects of amateur radio will be of interest to us all. Any suggestions you may have about the club activities will be greatly appreciated. This is your club and we want it to represent all aspect of amateur radio. Get involved, let your ideas be known. Let's make this year an 'Action Year".

GEORGE, WB5LDN

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REPORT FROM ALAMO DX AMIGOS JOHN SHEAN K5DB

The Alamo DX Amigos Radio Club is dedicated to serving the DX-oriented members of the Radio Amateur Fraternity in the Greater San Antonio Area. It is closely allied with the other clubs in the area, and many of its members hold dual/triple memberships in these sister clubs. The requirements for membership are simple--- You must be an ARRL Member, and you must be interested in some facet of radio amateur DXing on any of the Bands. We have been organized for over 3 years and currently have 35 active members. The stated purpose of the club is to assist any DX activity or station and to provide a platform for helping each other, to the local DX community, monthly meetings are held, normally in the last week of the month and on the day designated by the president. Such meeting provides the opportunity for DXers to gather and swap current DX tips and experiences regarding the rapidly changing DX propagation conditions. A DX information presentation compiled from all sources, is given at each meeting. Tape/slide and or movies of DX expeditions to rare and exotic palces in the world are frequently shown, and prominent DX personalities are hosted when available in the area. The club provides a central repository and distribution point for all DX related ARRL/CQ Magazine Forms; OP-Aids; and instruction sheets. Participation in annual DX contests and special DX activities is coordinated on a continuing basis. Helping each other work the elusive and rare DX countries if facilitated by the clubs "WANT LIST" system. Members can subscribe to the system and be called by the others when a DX station they need is active. Each Sunday at 8 pm local time on 28650 KHZ, the club holds it weekly net. The net is primarily to publicize hot DX news and exchange "worked DX" info. Anyone is welcome to listen in and/or check in to this net. In addition you may hear the club on 2 meters; 146.49 or 146.52 simplex. Anyone interested in getting in on the local DX activities call John Shean- K5DB telephone 696 1879 or Les - W5BE telephone 698 2215.

STOLEN

HW-2036 w/micoder, poor touchtone operation, black , foam-interior case has my name engraved on bottom cover. WB5STE George Cooper 433-7026

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READER'S NEW PRODUCT REPORT TEMPO VHF-1 Guest Writer Mercer Richardson

The foregoing represents only the opinion of the writer and in no way is to be considered the official opinion or position of the San Antonio Radio Club or this Bulletin*******

Henry Radio's Tempo VHF-1 frequency synthesized 2 meter FM transceiver was one of the first commercial rigs with digital frequency generation that covered the entire two meter band from 144 to 148 Mhz. Tempo's marketing approach was to put the FM transceiver in a separate case from the SSB generation circuits to keep the rig small for mobile use. The VHF-1 can be bought without the SSB attachment if interest is confined to FM only. The SSB adapter allows Sidewinder on Two and OSCAR operations or just local rag chewing without the "kerchunk, hissss." Clarity has been excellent on all modes. The clarifier and Receiver Incremental Tuning (RIT) are great help on stations between the synthesized frequencies as well on those signals which appear to be slightly off frequency. The large red digital display is easy to read except when the sun is shining on the display when mobile. The channel changing mechanism is two concentric knobs which allows one to "count the clicks" to change frequency without looking down to see the frequency readout. This is very advantageous for mobile operations and the same system pilots use in military aircraft to change radio frequency or identifier beacon (IFF) channels. The ten watts out has been perfect for nearly all operations although I am used to having a one watt position which the VHF-1 does not. Over all, it is a great little rig and the smallest "2 meter all mode" on the market. CW operation can be easily added and other kits can be added for separate unusual offsets or MARS operations. Your favorite 2 m repeater or simplex frequencies can be internally wired via diodes to the two separate "preset" channels. For the power buffs, the newer version with 25 watts output should be of interest. The low power position is 10 watts. I will display the VHF-1 at the next SARC meeting that I attend (Dec or later).

73, MERCER
KØVIF/5

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WANT ADS (NO CHARGE SEND COPY TO EDITOR, MUST BE IN WRITING)

WANTED- good "reasonable" late model all band H.F. Transceiver, popular brand; also multi-band verticle antenna***** Gil Reed K5TYV, 494-5704

WANTED- Hallicrafters HT-44 X'MTR, cable assembly, power supply, manual, also a tower. Gabe HUI, (Lic. Pending) 5807 Gomer Pyle 684-3940 eves

FOR SALE- NCX-3 XCEIVER w/ AC supply, will demo $225; MOSLEY RECEIVER CM-1, 80-10 Meter Amateur Band, less than 100 hrs. 684-1384 Kirk Jonas W5EOS

For SALE - Heath SB-300, Cantenna, HP-13, Knight T-150, SWR Meter, EICO 60 watt Xmiter, and some test equip. call for details 684-3365 Noyes Livingston WA5ZQK

Wanted- Used Antenna Rotor, "reasonable" Hank K5WQX 434-5395

WANTED- ICOM IC-22 or IC-22A at very reasonable price, Bob WB5FDT 696-2754 (6-9:00pm)

REPORT FROM RAY WANGLER

VHF activities during the last quarter have varied from very little activity in the latter part of the quarter on the 50 MHz frequencies to much activity at different times on the 2 meter frequencies. The 220 MHz has had local activity confined to the San Antonio area and not effected by propagation conditions. 432 has had some activity and I will give you the details on these under the various sections. I personally have had the pleasure of receiving QSL's from Georgia, Tennessee, and Alabama and North Carolina during these past few weeks, which gives me fourteen states confirmed on VHF and a fifteenth waiting.

50 MHz SSB:
Thanks to the report from the Smirk 1 newsletter K5ZMS indicates that the summer was very good for 6 meters this year. Membership in Smirk is now 2235 members including all fifty states and nineteen countries. This is an excellent number of hams organized to promote 6 meter activities on the sideband frequencies. Those of you that have not operated on 6 are missing some very good communication capabilities when the band is open. The last topnotch openings were in July and early August. Since that time, there have been a few openings of short duration. Hopefully next spring and summer will bring some very good activity on the 6 meters if the sun spot activity continues to improve as anticipated.

144 MHz SSB:
There were several good openings on 2 meters. Some of it possibly from TROPO scatter or from sporadic E and from ducting caused by cold fronts and temperature inversions across the country. On the 5th thru 9th of September, there were some good openings into the east part of the country toward Alabama, Georgia and Tennessee. There appeared to be a good duct along a northeast line to North Carolina as the signals on the aideband frequencies were as strong as the local repeater signals here in San Antonio. On the 20th and 21st of September, there were very good openings to the east. The weekend of October 29th, I received reports that 2 meters was open on a statewide basis and extended into Oklahoma, Arkansas and Mississippi. Look forward to additional openings for the months to come particularly when we have a very strong cold front coming into the local area causing a strong temperature inversion as it moves through. Should the cold front become stationary in the vicinity of San Antonio and extend eastward or northward from here, an inversion condition could develop for good conditions along this front. Watch for these fronts during the months ahead and you may find some very good openings on VHF.

220 MHz FM
There are new stations coming up on 220 MHz frequencies each month. I have received word of two additional repeaters in the process of being setup on 220. These will be on the low end of 220. So as soon as these become functional, there will be additional coverage available on this band.

432 MHz SSB
Additional stations have been heard in Houston and East Texas on 432 sideband operating around 432.1, 432.025 and 432.070. Local stations in San Antonio include W5LUU, W5VY and WB5DTW. The 432 activity in the Houston area seems to be building due to the availability of the transverters in local supply there. They are also available here at the present from a local dealer. There are regular schedules being held between San Antonio and Houston and between San Antonio and Dallas to study frequency utilization each morning

and each evening. Any stations interested in specific times and frequencies can contact the author for details.

1296 MHz and Up

There are a number of systems now available to the amateurs for 1296 and 10 GHz. These are stations working skeds between Dallas and Houston on 1296 each morning and continue to have reliable communcations between these two points on this frequency. To my knowledge, no local members are working in this range at present. New systems and individual components such as gun plexers and transceivers are available from various manufacturers around the country at relatively reasonable prices. These commercial units have output powers in 15 milliwatt, 25 milliwatt, and up to 40 milliwatt as transceivers complete with antennaes. If you have an interest in this area of the spectrum, I will be happy to furnish information and schematics as you may desire. I am interested in working with others locally in this area if they are interested in sharing the cost of buying a system that each of us would get a complete receiver, transmitter, and antennae. There will be a requirement to build detection equipment and audioamplifiers for the system. Schematcis are available for most of the equipment to make a complete system. I will keep you posted as OSCAR 8 gets into orbit. I requested information from the AMSAT program but as yet have not received the new dates as anticipated for the coming year.

W5EDZ

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"TEX the TRADER" KENNEDY ASSOCIATES 2618 Rigsby San Antonio 78222
We are open Saturdays, Call Tex, Craig, or Woody for a trade. 333-6110

NEW 2 METER FT227R YAESU Coming in November, under $300, 144-148 full cov.
All current YAESU models in stock: Wilson WE 800; 1402; 1405 w/TT Pads and acc. in stock.

USED EQUIPMENT IN STOCK

Heathkit: HW16; HW22; HP23; HM 102
Collins: KWM2 ; 75S3B; 32S3B PM 2 516F2 51S1
Drake: TR6; RV6; SC4: R4B

Galaxie: GT 550, w/VFO, CW; AC; Speaker
Icom: IC2F w/ IC3P : ICOM IC 22A Mint
Yaesu: FTV 650B six meter transverter; FV101B VFO; YP 150
Call 333-6110 OPEN SATURDAYS Call 333-6110

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ACTING EDITORS COMMENTS BOB VIA WB5FDT

I want to thank Dean and Maybelle Davis on behalf of the San Antonio Radio Club and myself, for the many years of hard work and long hours of labor that they put into past BULL-ETINS as Editors, typists, stencil makers, collaters, staplers, stampers,label stickers, mailers and GO-FORS (Go for this; Go for that). It is impossible for me to equal the high standards and professionalism which Dean and Maybelle gave to each issue of the BULL-ETIN. Dean to you and Maybell a special 73's and best wishes on your retirement travels.

The last issue of the BULL-ETIN prior to this issue was dated March 1977. I have agreed to be Acting Editor untill we can find a New Editor for this Bulletin. I made two conditions before accepting this position; ONE- it would be a turn key operation (no typing & printing of stencils, etc.) and TWO- I would be Acting Editor only untill we could find a new Editor(who could devote more time to the BULL-ETIN). After I agreed to be Acting Editor, The Board of Directors of SARC voted to make this a monthly Bulletin. I think this is a good idea, but I am going to need your help. Unless we can find a new Editor fast, I will need the following positions filed by Radio Club Members in order to meet the monthly publishing commitment:

1. TYPIST (To type camera ready copy from rough draft)
2. ALTERNATE TYPIST (when typist is unavailable)
3. CIRCULATION MANAGER (to maintain address labels; sort & mail)
4. GO-FOR # 1 (to pick up BULL-ETIN from printers, collate, staple and deliver to Circulation Manager)
5. GO-For #2 (When GO-FOR #1 or Circulation Manager is unavailable)
6. PHOTOGRAPHER (To supply Black and White 4 X 5 Photos)
7. Guest WRITERS (Members at large who will supply typed articles)

This means I need a commitment from you, to help your club and Amateur Radio. If we all work together, we can do it. Call me at 229-5200 during the day or at 696-2754 at night (6-9:00 pm) to volunteer for one of the above positions.

BOB WB5FDT

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ALAMO YL NEWS

December 10 is next LUNCHEON MEETING. 12:30 PM at Wyatt's Cafeteria Next to Broadway Bank. ELECTION OF OFFICERS to take place Dec. 10. Nominee for President is Frances Bruemmer, W5KQG; for Secretary, Inez Cole, W5WXT.

LOCAL QRM

Katherine K5TSZ and Ruth K5OPT both vacationed in Europe this year. Katherine visiting the British Isles and Ruth visiting the Art Museums of Amsterdam, Brussels, and Paris.

Frances W5KQG and OM have been working out of town for several years, but are back in the QTH with Johnny retiring in December.

Ruth is the 5th District Chairman for YLRL in 1978, so all YLRL members are asked to keep her informed on what's going on at your QTH. IF you would like to join YLRL or know more about it, give Ruth a call at 342-2225. It's the International YL organization and it keeps you informed.

Barbara WB5GAH and Beverly WA5CKA are both busy going to SAC and UTSA.

Bettye K5UMU is busy selling real estate. So if you need a new house or just want a change--maybe Bettye can help you.

Plan ahead, YL's, for the 1978 ARRL West Gulf Convention. We hear it will be held in El Paso over Labor Day Weekend. That should be a great place for a convention.

Due to conflict in so many schedules, we are thinking of changing the 40 Meter Net to another time. We would like to know when YOU would be aole to get on the air with us. Decision will be made at Dec. 10 luncheon. So drop us a note, or call. We need your help so that we can give everyone an equal chance.

Number 174 FROM HR REPORT November 4, 1977

A PIRATE 220-MHZ REPEATER operating in Chicago as a "commercial telephone service" was shut down this week by the FCC's Chicago Field Office after a two week long investigation. The clandestine operation, using frequencies below the repeater subband, was first discovered by Communication News Editor K9GHR, who immediately called W9JUV of HR Report. Together the two alerted key area 220-MHz users and within hours the repeater location, its sponsors (apparently several local Amateurs), a number of users, and even the costs ($350, which included a Midland 220 radio, Princess handset with Touch-Tone, and installation) were known and presented to local and Washington FCC officials with K7RBM/9 (Illinois Repeater Council Chairman) and W9JUV acting as the respective liaisons.

Despite The Number of local Amateurs aware of the operation and cooperating in the investigation, it went practically unmentioned on the air. Inputs from the many monitors were passed to the FCC by the liaisons, and it appears the shutdown came as a complete surprise to both users and sponsors. How they expected to get away with such a blatently illegal system is a mystery, but the sponsors were even heard on the system talking about the need for a second machine since the first one was so successful!

No Amateur Callsigns were ever heard and it's probable that most of the "subscribers" (including a tire wholesaler and a medical clinic) thought they were perfectly legal. HR Report also learned of two previous "commercial" repeaters set up in Amateur bands; one was a 420-MHz system in California while the other in Texas used two meters. Both disappeared after their operators learned off the air that local Amateurs had discovered them.

Charges Made Will Probably Include misuse of autopatch. The FCC appears particularly interested in this area of operation...a good warning to all of us.

SAN ANTONIO RADIO CLUB
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